

Comments from Norbert Schmitz

Dear Spencer, Ramiro, and Colleagues,

here are a few comments to this nice paper.

occurring several times in the paper:

- GeV/nucleon ---> GeV/nucleon-pair (to be precise)

Changed.

- in the text, the reference numbers are not always introduced in the right order, namely: ref 3 after ref 14; ref 40 after ref 41

This has been fixed.

- in the text, Table appears sometimes as 'Table', sometimes abbreviated as 'Tab.'; uniform notation

We now consistently write 'Table' at the beginning of a sentence, and 'Tab.' Elsewhere.

- in Figs. 4, 5 and 7 there seems to be some mismatch between the figures and their respective captions regarding the colors and symbols used; see more details below

- the dimension of t is sometimes $(\text{GeV}/c)^2$, sometimes GeV^2 ; should be uniform (?)

We have checked that these are now consistent.

line 120: These pairs ---> These pion pairs (in contrast to nucleon pairs)

Changed.

line 132: but inconsistent --> but is inconsistent

The phrasing has been changed.

line 146: $\sim x10^{-3}$ ---> $\sim 10^{-3}$

Fixed.

line 200: second is ---> second result is

OK.

line 209: mid-rapidyt ---> mid-rapidity

Fixed; thanks.

line 216: up to $/\eta/ < 1$ ---> up to $/\eta/ = 1$ (or: for $/\eta/ < 1$)

Rephrased.

line 250: (p_T) of ---> (p_T) distribution of

“Distribution” has been added.

line 297: the ... ratio ---> the $(2n_1n + 1n_2n) : 1n_1n$ ratio

parentheses added.

lines 317/318 and 328/329: first it says that eq. 4 with $9m_{\pi}^2$ was "taken", then it says below that eq. 5 with $4m_{\pi}^2$ was "used". This seeming contradiction should be removed by slightly reformulating the text

This confusing wording was a leftover from intense GPC discussions; it had already been replaced with some language suggested by Zhangbu.

Fig. 4 and caption:

- there are disagreements between the colors and lines in the figure and the respective caption, e.g.

line 2: black ---> thick red

line 3: blue ---> thin red

line 4: black-dashed ---> three dots-dashed red, etc

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- there seem to be five red-colored lines (or are some lines magenta? hardly distinguishable). Use more different colors, why not green, brown, etc.?

The figure colors have been changed, and the description altered to match.

- legend in the figure, line for rho: Wiegner ---> Wigner

Fixed.

- caption line 5: mesons $i(\dots)$ ---> mesons (

Fixed.

line 335: components., ---> components,

Fixed.

line 341: rho0 to direct pi+pi- ---> direct pi+pi- to rho0
(corresponding to B/A, omega to rho0 in line 346)

The order has been switched.

line 384: energies. T ---> energies.

Fixed.

line 397: remove 'to reach'

Fixed.

lines 411/412: I do not understand 'for a total of 6%'

There are two tracks; the systematic uncertainties on the two tracks are nearly 100% correlated, so we double the systematic uncertainty for 1 track. We have rephrased this for increased clarity.

Fig.5 upper panel

- there is no 'thick black line', as mentioned in the caption line 3. I see only a short black marker to the left (right) of the blue error band a little above (below) 0.8 at the vertical axis

The captions has been fixed.

- lettering of vertical axis: $[\text{GeV}/c]^{-1/2}$ ---> $[(\text{GeV}/c)^{-1/2}]$

This had already been fixed in an intermediate version.

caption Fig.5

line 3: blue-filled circles ---> open blue squares

This has been fixed.

line 445: variable t is ---> variable t (4-momentum transfer squared) is

This addition seems unnecessary in view of the number of times t has been used previously.

Figs. 7 and 8: the fraction lines of $d\sigma/dt$ at the vertical axes should be thicker

This has been fixed.

caption Fig.7

line 2: I do not see any vertical lines. Perhaps one should say instead that the statistical errors are smaller than the data markers?

OK, changed.

line 4: the its extrapolation --->
the extrapolation (or: its extrapolation)
(thin line) ---> (thin blue line)
line 5: (dashed blue line) ---> (black dots) (?)

These have been rephrased.

line 486: ratios ---> rates (?)

Ratios is correct. We have expanded the previous sentence to say to “coherent/incoherent cross-section ratio” for clarity.

line 490: black ---> blue

Fixed.

line 492: $(\text{GeV}/c)^{-2}$ ---> $(\text{GeV}/c)^2$ (occurring twice)

Fixed.

line 528: 'green and red' are NOT the colors of the two bands in Fig. 8

Fixed.

line 566: rho0 to direct pi+pi- ---> direct pi+pi- to rho0

Order is swapped.

references

ref 9: JHEP 1509 ---> JHEP 09
(this is the usual JHEP notation; 15 is already in (2015))

This is taken directly from INSPIRE: <http://inspirehep.net/record/1357206/export/hlxu> and we're prefer to follow their lead.

ref 24: is published: Comput. Phys. Commun. 212 (2017) 258

This has been updated.

With best regards,
Norbert

Thank you for your careful proofreading.

Spencer and Ramiro.